

Description of Map Units

- af** Artificial Fill. Materials imported for construction projects, e.g. dams, highways.
- Hal** Alluvium. Modern stream sediments ranging from boulder gravel to silt. Organics are common. Abandoned channels and scroll bars frequently occur.
- Haf** Alluvial Fan. Fan-shaped deposits ranging from boulders to fine sand. Fans may consist of diamict deposited in debris flows. Sediment usually fines from apex to toe of fan.
- Qg** Gravel. Undifferentiated, unknown source.
- Hft** Fluvial Terrace. Abandoned terrace well above the modern floodplain. "Old" alluvium may be present but is generally <2 m thick and has frequently been removed by human activities revealing the underlying sediment.
- Pdv** Lake Vermont Delta. Sand and gravel deposited in topset, foreset, and bottomset beds of deltas built into Glacial Lake Vermont.
- Pdm** Lake Mansfield Delta. Sand and gravel deposited in topset, foreset, and bottomset beds of deltas built into Glacial Lake Mansfield.
- Pdw** Lake Winooski Delta. Sand and gravel deposited in topset, foreset, and bottomset beds of deltas built into Glacial Lake Winooski.
- Pdh** High Level Delta. Sand and gravel deposited in topset and foreset beds of deltas built into small, short-lived, unnamed glacial lakes.
- Pls** Lacustrine Silt/Sand. Lake bottom deposits consisting principally of interlayered silt and fine to very fine sand.
- Plc** Lacustrine Silt/Clay. Lake bottom deposits consisting principally of interlayered silt and clay; frequently varved.
- Pic** Ice-Contact Deposits. Undifferentiated Coarse sand to boulders generally deposited near the mouth of subglacial tunnels in subaqueous and subaerial fans.
Pie - Esker, shown in cross-section only. Ridge of poorly-sorted stream sediments ranging from coarse sand to boulders deposited in a subglacial tunnel. Frequently mantled by ablation till near valley sides.
- Pm** Moraine. Ridge composed of glacial till.
- Pt** Till. Dense, unsorted sediment generally deposited beneath the ice sheet.

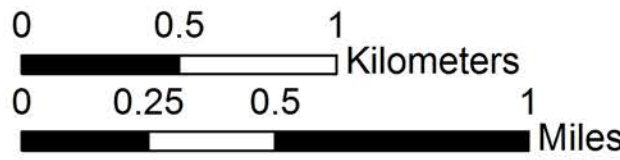
Description of Map Symbols

- Landslide** (orange hatched box)
- Wetlands** (green hatched box)
- Bedrock Outcrop** (white box with black outline)
- Lake/Pond** (blue box)
- Stream/River** (blue line)
- USGS 24K Quadrangle Boundaries** (black line)
- Town Boundary** (thin black line)
- Field Site** (black dot)
- Water Well** (black triangle)
- Thin Fluvial Terrace** (dashed orange line)
- Abandoned Channel** (dashed blue line)
- Lake Winooski Shoreline** (dashed orange line)
- Moraine Ridge** (green line)
- Road** (black line)
- Interstate** (red line)
- Trails** (dashed black line)

Surficial Geologic Map of the Bolton Mountain Quadrangle, Vermont

Scale = 1:24,000

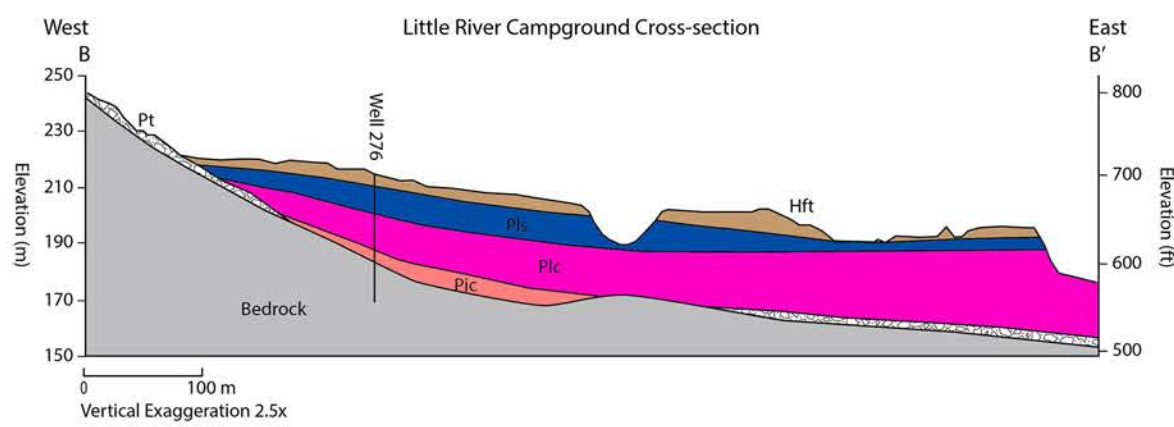
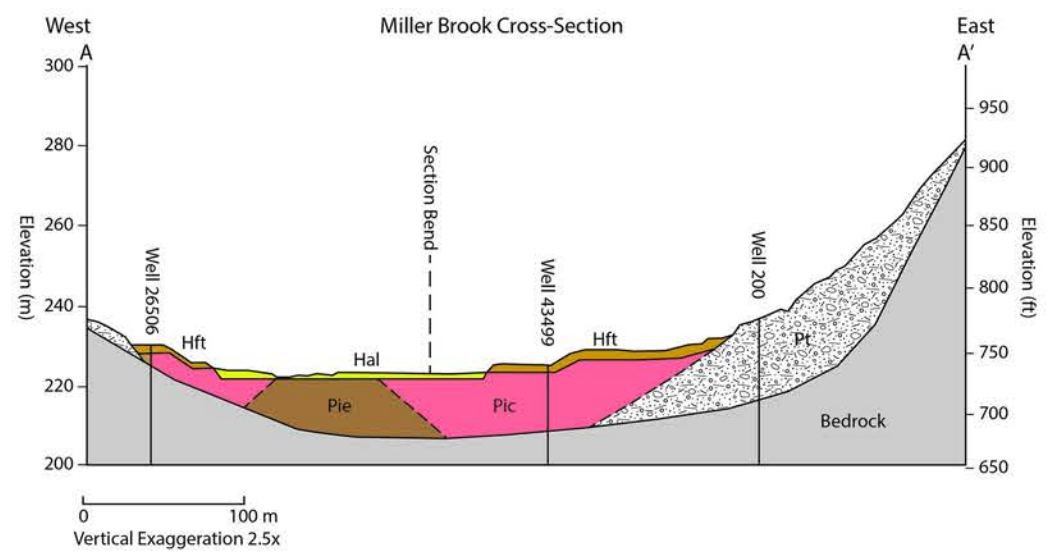
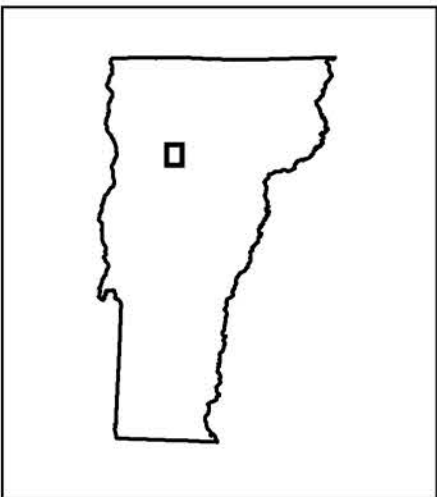
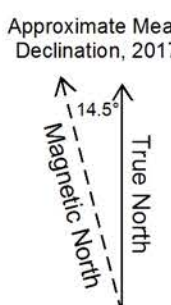
Contour Interval = 50 feet



Coordinate System: Vermont State Plane, FIPS 4400, NAD83
Grid Overlay: UTM Zone 18N, NAD 1983
Basemap data from VCGI.
Elevation data derived from USGS NED 10m DEM.

Vermont Geological Survey Open-File Report VG2018-4

By
Stephen F. Wright



Alluvial fan deposited on the north shore of Lake Mansfield. Toe of fan extends beneath the lake surface.



Large pothole produced by high velocity subglacial water flow, uppermost Miller Brook valley ~1 km east of Nebraska Notch.

Map updated August 1st, 2019 to show the Cotton Brook Landslide that occurred in late May 2019.

Thank you to many volunteers and landowners who allowed access to their property. Additional Bedrock Outcrops derived from the Vermont Geological Survey "Bedrock Outcrops" Layer hosted by Vermont Center For Geographic Information.

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